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AMESBURY CITY CLERK

PLANNING BOARD DECISION

*Property
Ownership:*

A Noel Roy Living Trust
119 Main Avenue, S Hampton NH 03827

Applicant:

Cellco Partnership d/b/a Verizon Wireless
400 Friberg Parkway, Westborough, MA 01581

Application Type:

Modification to Site Plan

Project:

12 new antennas on existing Wireless Communication Facility

Location:

27 South Hunt Road, Amesbury MA 01913

Date:

September 26, 2016

The Amesbury Planning Board (the “Board”) received an application from **Cellco Partnership d/b/a Verizon Wireless**, 400 Friberg Parkway, Westborough, MA 01581 (the “Applicant”) to modify the current site plan and to co-locate and install twelve (12) new panel antennas at the centerline of an existing 135 feet monopole tower and expand the existing 160 sf concrete pad by about 48 sf for additional equipment (the “Project”) as allowed under Section XI.I of the Amesbury Zoning Bylaw. The Project is fully described in Exhibit A. The existing Wireless Communication Facility(the “WCF”) is located at 27 Hunt Road, Amesbury, MA and on Map # 96 Lot # 8 and the application was submitted by Cellco Partnership on behalf of Verizon Wireless, 400 Friberg Parkway, Westborough, MA 01581.

On September 26, 2016, the Amesbury Planning Board approved the requested modifications to the site plan.

Stipulations/Modifications: The following stipulations are made as a condition of this approval of Site Plan Modification:

A. Prior to Making Request for Building Permit:

- 1) The applicant shall provide a bond or cash in the amount of \$20,000 for the removal and restoration of the site should the Wireless Communication Facility become discontinued, obsolete or falls into a state of disrepair;
- 2) The Applicant shall submit the last annual report and subsequent annual reports as required under Section XI.I.4.d;
- 3) The Special Permit approval allowed the height to be extended to 135 feet. According to Section XI.I.3.a.i of the Amesbury Zoning Bylaws, the height as measured from the base of the tower to the highest point of the tower or its projections cannot exceed the permitted height. The Applicant shall submit a construction drawing set stamped by a professional engineer (P.E.) licensed in the Commonwealth of Massachusetts along with written certification confirming that all proposed construction, including replacement of antennas and installation of new antennas shall comply with this requirement of the Bylaw. Any revisions made to the final set of plans shall be submitted to the Planning Board for the record;
- 4) Structural Analysis: The Applicant shall submit a certification a from professional engineer (P.E.) licensed in the Commonwealth of Massachusetts that the existing monopole as modified and with the installation of new antennas shall meet all current local, state and federal requirements for structural integrity to allow the installation of additional antennas on the existing monopole; and
- 5) The Applicant shall submit a confirmation letter from the City Treasurer's office that any and all city taxes owed by the property owner have been paid in full.

B. General:

- 1) Site Plan Changes/Modifications: No new structure or addition to the existing structure other than allowed by the Board shall be permitted without a submission of a written request from the applicant to the Board for review and approval. No changes to the existing location of buildings, addition of impervious surface or vegetation on the site are being proposed. Any change in building location, addition of equipment pads that create additional impervious surface, removal of vegetation or grading shall require the submission of a written request to the Board before those changes are made on the site;
- 2) Environmental Permits: The Wireless Facility is subject to any perpetual conditions of the Order of Conditions recorded at the Registry of Deeds (DEP # 002-0778) and any violations of said Order shall be considered a violation of the Special Permits granted for this Wireless Facility. The proposed project also received approval from the Amesbury Conservation Commission as recorded at the Registry of Deeds as follows: Certificate of Compliance -Book 30963, Page 408 and Determination of Applicability - Book 30963, Page 411;
- 3) This Wireless Facility is subject to the Conditions of Approval of the Special Permit and Site Plan Review recorded at the Registry of Deeds, Book 17317, Pages 41 – 44 and any violations of said permit shall be remedied as provided in the Amesbury Zoning Bylaw;
- 4) Upon completion of work, the Applicant shall submit a Construction Control Affidavit (CCA) no later than August 30, 2012 stating that the work has been done in compliance with the plans and modification drawings as per this approval. The letter shall be signed by a professional engineer registered in the Commonwealth of Massachusetts; and
- 5) Any and all provisions of the Amesbury Zoning Bylaws shall remain in full force and effect unless waived in writing by the Board

Chair, Amesbury Planning Board

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CITY OF AMESBURY

CONSTRUCTION SEQUENCE NARRATIVE

APPLICANT: Cellco Partnership d/b/a Verizon Wireless

SITE ADDRESS: 27 South Hunt Road, Amesbury, MA

ASSESSOR'S LOT I.D.: Map 96, Lot 8

ZONING DISTRICT: Industrial (I)

This Constructive Sequence Narrative filed in support of the request for an exception pursuant to the Amesbury Wetland Regulation, all rights reserved, is respectfully submitted by Cellco Partnership d/b/a Verizon Wireless ("Verizon Wireless") to the City of Amesbury, Conservation Commission ("Commission").

Pursuant to Part I, Section 4.0 of the Amesbury Wetland Regulations "[e]xceptions may be made for maintaining, repairing or replacing, but not substantially changing or enlarging, an existing lawfully located structure or facility used in the service of the public and used to provide electric, gas, water, telephone, telegraph and other telecommunications services."

Based on the description set forth herein, and as will be further discussed at the meeting on this matter, the proposed collocation of a wireless communications facility fulfills the standards for an exception under the Amesbury Wetland Regulations for telecommunications services that will be located on an existing telecommunications tower and within the existing fenced equipment area.

PROPOSED WORK

Verizon Wireless is proposing to install twelve (12) antennas at a mount height of 125 feet on the existing 135 foot telecommunications tower with nine (9) remote radio heads and 2 junction boxes. The antennas will be mounted in three separate arrays of four (4) antennas per array. The cabling will run from the antennas inside the monopole to an ice bridge and then to the proposed equipment cabinet.

Verizon Wireless will install a six (6') foot by eight (8') foot concrete pad [48 square feet] next to an existing ten (10') by sixteen (16') concrete pad [160 square feet] to house its telecommunications equipment cabinets, backup batteries and backup generator with an ice canopy inside of the fenced area. Two 120 gallon propane tanks will be located on the existing 10' by 16' concrete pad inside of the fenced area. The emergency generator will only be used for back-up power and only in the event of an emergency.

Electric and telephone lines will run underground ground from the Verizon Wireless equipment and will be connected to an existing meter board and CSC Cabinet inside the fenced area.

PLANS

Verizon Wireless has submitted detailed plans entitled "Amesbury Riverside MA" for the property at 27 South Hunt Road, Amesbury, MA 01913 prepared by Hudson Design Group LLC with a last revision date 03/08/16. All material modifications to the design affecting the location, grading or construction of the installation of the proposed wireless facility shall be subject to the review by the Commission prior to any related site work commencing. These changes shall include, but not be limited to, any modifications that may be required by another local board or commission.

CONSTRUCTION METHOD

While the majority of work will occur on the existing telecommunications tower, the proposed wireless install at 27 South Hunt Road will also require some minimal ground work that shall occur within the existing fenced area to include the minor trenching to install the utility services, ice bridge posts and minor grading to install the 6' x 8' concrete pad. The new concrete pad measuring 48 square feet will be installed immediately adjacent to the existing 160 square foot concrete pad at the area depicted in the plans. A small amount of soil will be excavated for the 6' x 8' concrete pad that will support Verizon Wireless' outdoor equipment cabinets. Once the concrete pad is complete, Verizon Wireless will install the new outdoor cabinets next to the existing concrete pad that will support the propane generator connected to the proposed propane tanks. The installation of the electric and telephone lines that will run underground ground from the Verizon Wireless equipment will require minor trenching 36-48 inches deep to connect to the existing meter board and CSC Cabinet inside the fenced area. There will be minimal excavation of soils that will be distributed on site.

The entire project installation will require 1-2 months to complete.

CONSTRUCTION PERIOD MITIGATION MEASURES

There will be minimal soil disturbance of the areas where the work will take place and all such disturbance shall occur inside the existing fenced area.

The best available measures will be used to minimize any adverse effects that may occur during the construction period.

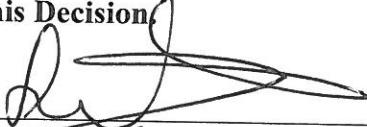
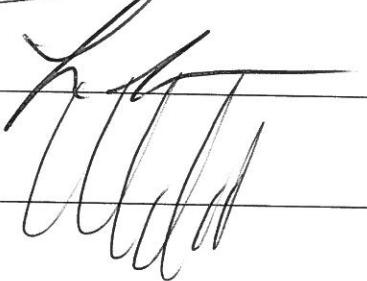
- Dropping of debris into the associated resources will be prohibited.
- No pollutants of any kind will be discharged or disposed of in resource areas. The proposed project will not violate air or water quality standards.
- There will be no use of pesticides, or herbicides within a resource or the buffer zone during construction.

EXHIBITS

TO:

PLANNING BOARD VOTE:

On 9/26/16, the Amesbury Planning Board voted all in favor of a Site Plan Modification for the Wireless Communication Facility located at 27 South Hunt Road in Amesbury MA subject to the findings, waivers and conditions noted in this Decision.

Karen Esposito
Robert N. LaPointe
Bob Will

Filed with the City Clerk on 10/3/16

Bonnie Kitchen
City Clerk



FOR CONSTRUCTION

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MECHANICALITY

verizon wireless

AMESBURY RIVERSIDE MA
27 SOUTH HUNT ROAD
AMESBURY, MA 01913



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SET ON I-495 N FROM FRIBERG PKWY AND MA 9 E/STATE HWY 9
I-95 BOSTON-WORCESTER TURNPIKE
CONTINUE ON I-495 N TOWARD LOWELL
CONTINUE ON ROUTE 150 N EXIT 60 (SIGNS FOR ROUTE 286/SALISBURY BEACHES)
ROUTE 150 EXT/MA 150 VIA EXIT 54 TOWARD ANERSBURY
TURN LEFT ON SOUTH HUN ROAD, ANERSBURY, MA 01913
ROUTE 150 CONTINUE ON HUN ROAD, ANERSBURY, MA 01913
TOWARD HUN ROAD, ANERSBURY, MA 01913

SHEET INDEX	
SHEET NO.	DESCRIPTION
T-1	TITLE SHEET
C-1	PILOT PLAN
A-1	COMPOUND PLAN
A-2	WEST ELEVATION
A-3	ANTENNA PLAN & DETAILS
A-4	DETAILS
S-1	STRUCTURAL NOTES
S-2	STRUCTURAL DETAILS
E-1	ELECTRICAL / GROUNDING RISER DIAGRAM
E-2	ELECTRICAL / GROUNDING PLAN AND NOTES
E-3	ELECTRICAL / GROUNDING DETAILS
RF-1	RF COLOR CODE
RF-2	RF ANTENNA DESIGN
RF-3	RF ANTENNA DESIGN

SITE NAME:
AMESBURY
RIVERSIDE MA

SITE ADDRESS:
27 SOUTH HUNT RD
AMESBURY, MA 01913

PREPARED FOR:

Verizon Wireless
NO BRING AN ANTENNA
WIRELESS ANTENNA
ROUTE 495, AMESBURY, MA 01913
(978) 355-3334 TEL (978) 355-3553 FAX

Hudson Design Group Inc.
100 CHOCOOLITE STREET
BUILDING 20 NORTH, SUITE 3000
WILMINGTON, MA 01887

STATE OF MASSACHUSETT
COMMUNICATOR
DANIEL P. HAMMOND, CIV. ENG.
REGISTERED PROFESSIONAL ENGINEER
No. 40720

SOURCE:
CITY OF AMESBURY MASS ASSESSOR MAPS AND GIS ONLINE MAPS

SITE SPECIFIC NOTES:

1. SITE SURVEY HAS NOT BEEN CONDUCTED BY HUDSON DESIGN GROUP, LLC FOR THIS PROJECT. ALL SETBACKS SHOWN ON THIS PLAN ARE TAKEN FROM THE PROPOSED ANTENNAS TO PROPERTY LINES AND ARE APPROXIMATE.
2. VERIFY AZIMUTHS W/ RF ENGINEER.
3. PROPERTY LINE INFORMATION IS COMPILED FROM ASSESSORS PLANS AND RECORD DOCUMENTS AND IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD BOUNDARY SURVEY. AS SUCH, SUBJECT TO CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE, A FULL BOUNDARY SURVEY WAS NOT PERFORMED.

ZONES:

I	INDUSTRIAL
R-40	RESIDENTIAL 40%
R-80	RESIDENTIAL 80%

LEGEND:

- PROPERTY LINE – SUBJECT PARCEL
- PROPERTY LINE – ABUTTERS
- ZONING BOUNDARY LINE
- WATER LINE
- EXISTING BUILDING

ZONING INFORMATION:

JURISDICTION:	CITY OF AMESBURY, MA	
ZONING DISTRICT TYPE:	I INDUSTRIAL	
DIMENSION REQUIREMENTS:	REQUIRED	PROPS.
MINIMUM LOT AREA:	40,000 sf	N/A
MINIMUM LOT FRONTAGE:	125 ft	234±
FRONT YARD SETBACK:	25 ft	234±
SIDE YARD SETBACK:	20 ft	76± & 177±
REAR YARD SETBACK:	40 ft	320±
MAXIMUM BUILDING HEIGHT:	40 ft	N/A

PLOT PLAN
22x34 SCALE: 1"=100'-0"
11x17 SCALE: 1"=200'-0"

PLOT PLAN
22x34 SCALE: 1"=100'-0"
11x17 SCALE: 1"=200'-0"

GRAPHIC SCALE
0 50 100 200 300 FEET

TRIANGLE
NORTH
MAGNETIC NORTH

PARCEL ID:
95-1
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PREPARED FOR:



NO. 00000, STREET
BLDG. 20, NORTH SITE, 3000
N. ANDOVER, MA 01845
TEL: (978) 434-5533
FAX: (978) 434-5566



JX

CHECKED BY:

DPH

APPROVED BY:

DANIEL P.
HARVEY
CIVIL
REGISTERED PROFESSIONAL ENGINEER

SUBMITTALS

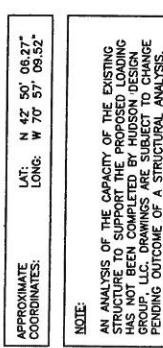
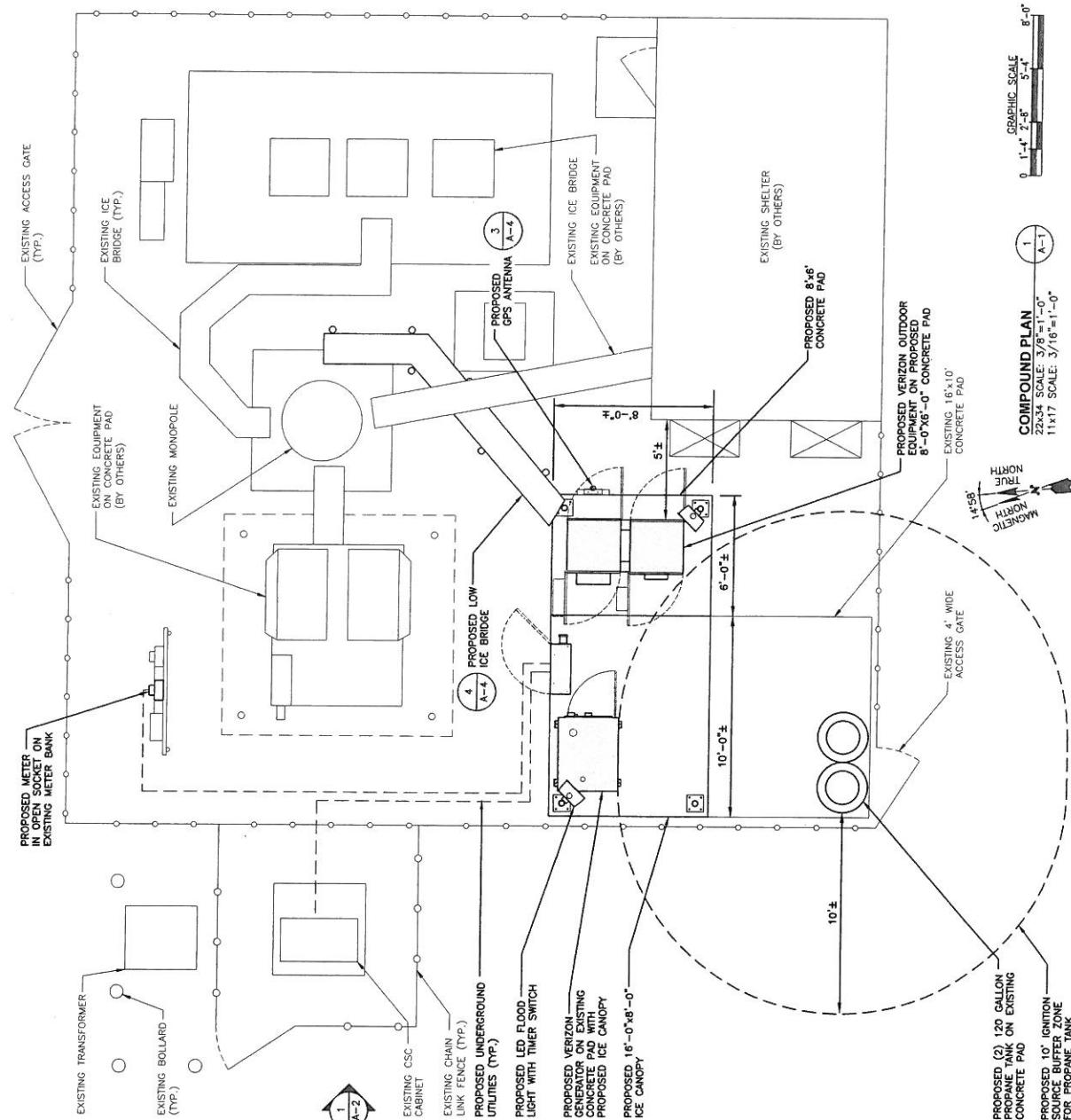
REF.	DATE	DESCRIPTION	RF
1	03/09/16	FOR PERMITTING	W
0	02/09/16	FOR CONSTRUCTION	C

SITE NAME: AMESBURY RIVERSIDE MA
SITE ADDRESS: 27 SOUTH HUNT RD AMESBURY, MA 01913
SHEET TIME: SHEET NUMBER: A-1

COMPOUND PLAN

COMPOUND PLAN
A-1

FOR CONSTRUCTION





FOR CONSTRUCTION

APPROXIMATE COORDINATES:	Lat: N 42° 50' 06.27" Long: W 70° 57' 09.52"
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NOTE:

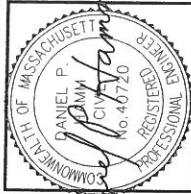
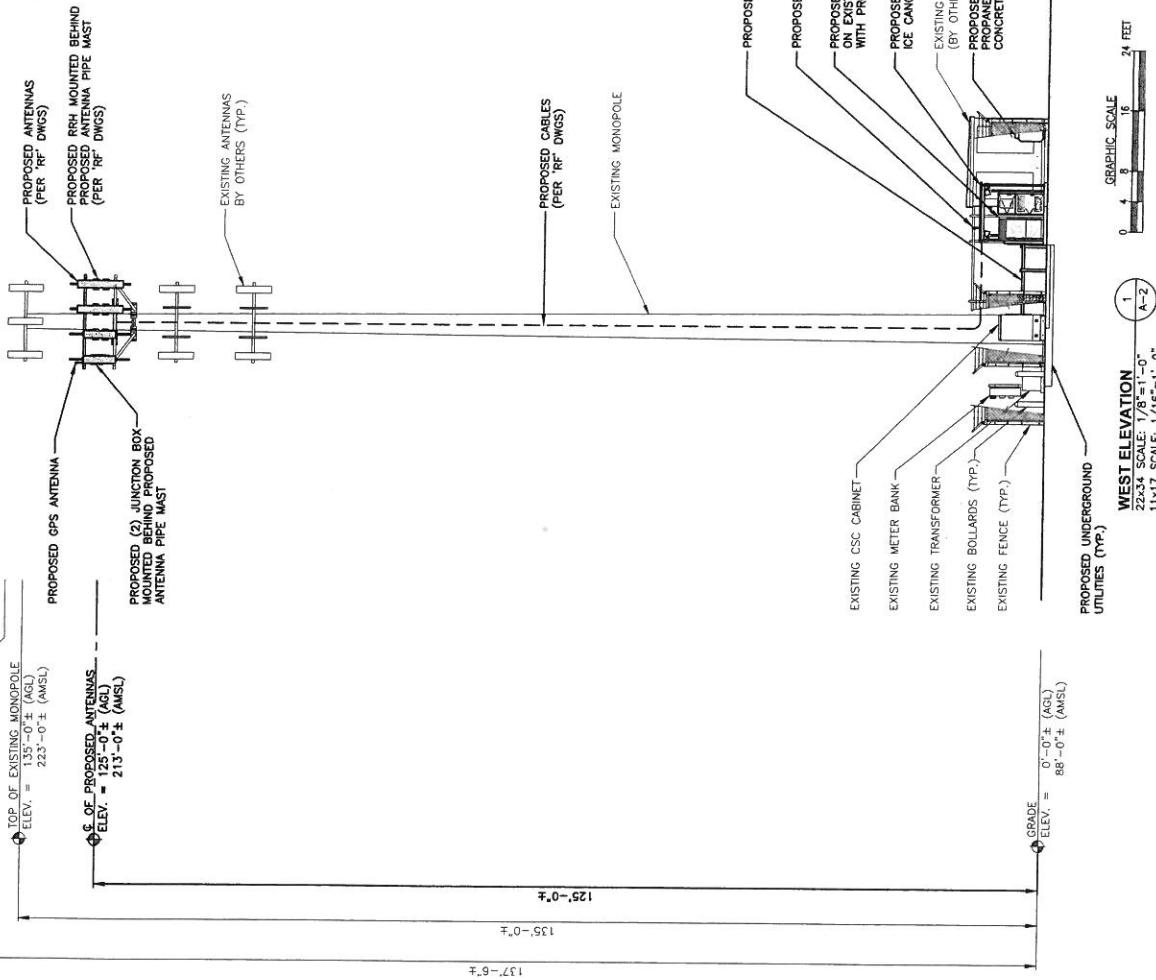
An analysis of the capacity of the existing structure to support the proposed loading has been conducted by Hudson Design Group, LLC. Drawings are subject to change pending outcome of a structural analysis.

NOTE: CABLE LENGTH = EXACT LENGTH PLUS 25'

PROPOSED ANTENNA INFORMATION

SECTOR	STATUS	AZIMUTH	CABLE LENGTH
1	PROPOSED	0°	185'
2	PROPOSED	100°	185'
3	PROPOSED	250°	185'

NOTE: CABLE LENGTH = EXACT LENGTH PLUS 25'



CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REF.	DATE	DESCRIPTION	RF
1	01/09/16	FOR PERMITTING	M
0	02/09/16	FOR CONSTRUCTION	D

SITE NAME:
AMESBURY
RIVERSIDE MA

SITE ADDRESS:
27 SOUTH HUNT RD
AMESBURY, MA 01913

SHEET TITLE:
WEST ELEVATION

SHEET NUMBER:
A-2

GRAPHIC SCALE
0 4 8 12 16 24 FEET

WEST ELEVATION
22x34 SCALE: 1/8=1'-0"
11x17 SCALE: 1/16=1'-0"

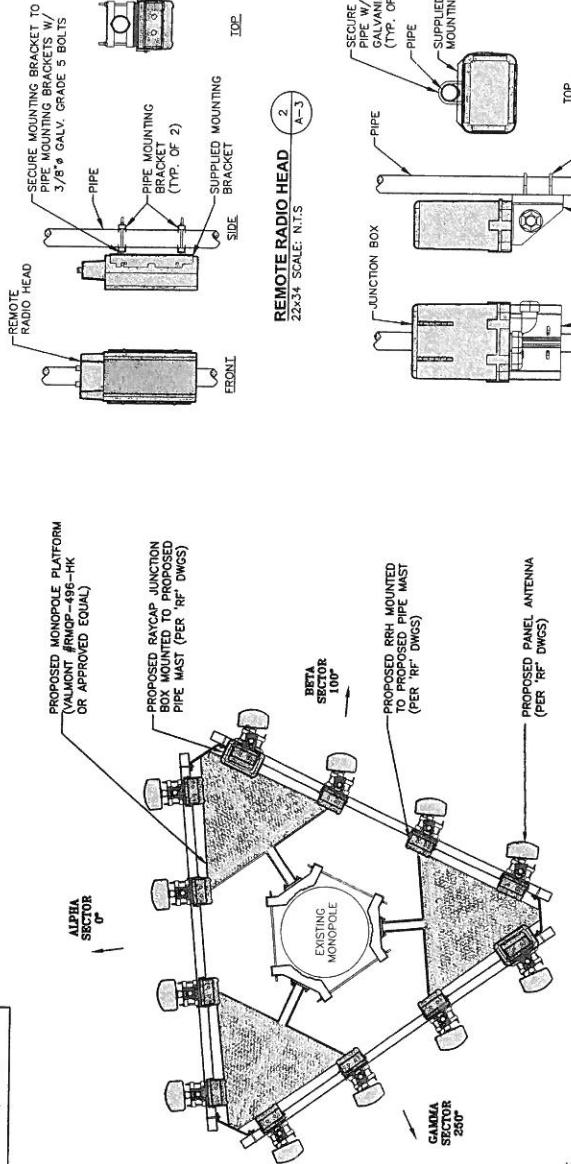
PREPARED FOR:



100 COCOA STREET
NANDUKE, MA 01845
TEL: (781) 825-4550
FAX: (781) 825-4556



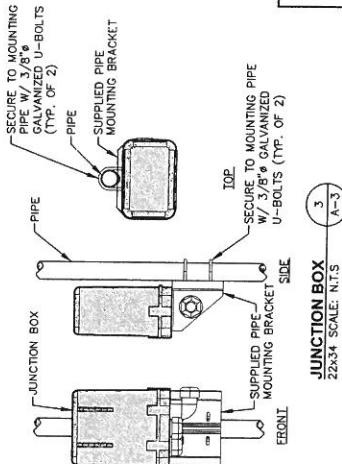
FOR CONSTRUCTION



ANTENNA, RRH & JUNCTION BOX PLAN **1**
SCALE: N.T.S. **A-3**

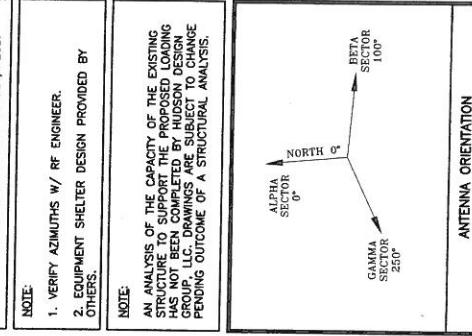
NOTE:
GENERAL CONTRACTOR TO USE
DUMMY EQUIPMENT AS
REQUIRED.

NOTE:
TRUE NORTH
MAGNETIC NORTH
TRUE NORTH



JUNCTION BOX **2**
22x34 SCALE: N.T.S. **A-3**

NOTE:
SECURE TO MOUNTING PIPE
W/ 3/8" GALVANIZED U-BOLTS (TYP. OF 2)



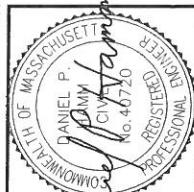
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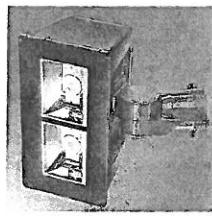
401 BIRCH AVENUE
NEWTON, MASSACHUSETTS 02466



100 OSGOOD STREET
BURLINGTON, MA 01803
TEL: (781) 229-5553
FAX: (781) 229-5584



FOR CONSTRUCTION



INTERNAL FEED
INTERMATIC WP1220C
TIME CYCLE: 6 HOURS
SWITCH: SPST
HOLD: NO
OR APPROVED EQUIVALENT

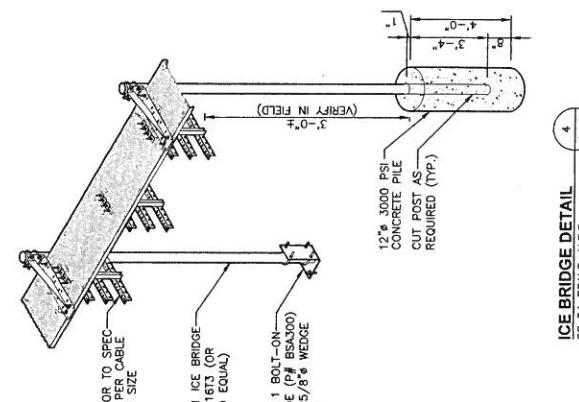
SWITCH DETAIL

SCALE: N.T.S.

COOPER LIGHTING NIGHT FALCON
NFD-224-E-LN 66-S-BK
SLIPFITTER MOUNT AND VANDAL SHIELD
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

EXTERIOR LED FLOOD LIGHT DETAIL

SCALE: N.T.S.

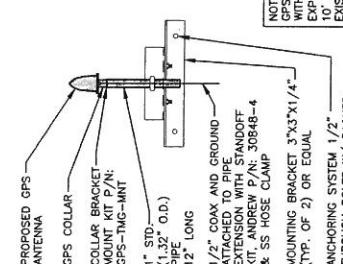


CONTRACTOR TO SPEC
HANGERS PER CABLE
TYPE AND SIZE

SITE PRO1 ICE BRIDGE
#IB24D-21613 (OR
APPROVED EQUAL)

SITE PRO 1 BOLT-ON
BASE SHOE (P# BS4300)
WITH (3) 5/8" WEDGE
ANCHORS

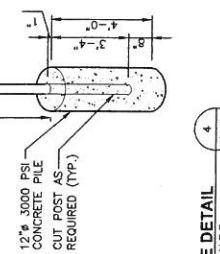
NOTE: TO BE MOUNTED
WITH SOUTHWESTERN
EXPOSURE. MIN. OF
10' AWAY FROM
EXISTING GPS
ANTENNA



TYPE: DOUBLE GANG
HINGE: VERTICAL
INSERT: WP217
DEPTH: 2-1/4"
COLOR: CLEAR
OR APPROVED EQUIVALENT

GPS MOUNTING DETAIL

SCALE: N.T.S.



ICE BRIDGE DETAIL
22x34 SCALE: N.T.S.

CHECKED BY:		
JX		
APPROVED BY:		
DPH		
SUBMITTALS		
REF.	DATE	DESCRIPTION
1	02/09/16	FOR PERMITTING
0	02/09/16	FOR CONSTRUCTION

SHEET NAME:	
AMESBURY RIVERSIDE MA	
SITE ADDRESS:	
27 SOUTH HUNT RD AMESBURY, MA 01913	
SHEET TIME:	
DETAILS	
SHEET NUMBER	
A-4	

STRUCTURAL NOTES:

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE (IBC 2009), ASCE 7-05, IBC-22-05, STRUCTURAL STANDARDS FOR STEEL, AIA/NR, OWNERS AND ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIALS, UNLESS CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER OR ENGINEER OF RECORD.
- DESIGN AND CONSTRUCTION OF STEEL CONSTRUCTION "SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, (F=50 ksi), OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SAWED CARBON STEEL STRUCTURAL TUBING, GRADE B, OR ASTM SEAMLESS, TYPE E, GRAD B" AND DIP COATED AND DIP COATED ARE NORMAL, ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (SEE ANCHOR CONNECTION TO ASTM A23 TYPE-X, HIGH STRENGTH BOLTS FOR CONCRETE JOINTS, LOADS, INCLUDING "SPLIT NUTS" AND PLAIN HARDENDED WASHERS". ALL BOLTS SHALL BE 5/4" DA UNLESS NOTED).
- ALL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A23 ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS, UNLESS OTHERWISE NOTED.
- GALVANIZED AND MISCELLANEOUS OTHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 ZINC COATING TESTS AND LAIDEN, POST INSTALLED REFERENCED ROD
- STEEL PIPE, DRILL HOLES, SAW CUTS, AND ALL DAMAGED, GALVANIZED SURFACES SHALL BE REPAIRED WITH A LAVENDER COLOR PAINT, THAT COMPLIES WITH REQUIREMENTS OF ASTM A750, AND RECOAT WITH A CLEAR TOP COAT. PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, DURCIN, DURGALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. LESS THAN 65% ZINC COATING IS ALLOWED IF THE RESULTING COATING THICKNESS IS EQUAL TO OR GREATER THAN THE MINIMUM SIZE PER TABLE 12.4 IN THE ASC MANUAL OF STEEL CONSTRUCTION - 17TH EDITION.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, CORRECTING WELDING METHODS AND INSPECTION METHODS USED IN THE FIELD. ALL WELDED AND BRAZED METHODS USED IN THE FIELD SHALL BE QUALIFIED IN ACCORDANCE WITH AWS STANDARD QUALITY STANDARDS. GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL, ELECTRODES AND WELDING SHALL BE DONE USING EXOKO, ERICSON, AND WELDING SHALL CONFORM TO AWS AND DUL, WHERE LESS THAN 65% ZINC COATING IS ALLOWED IF THE RESULTING COATING THICKNESS IS EQUAL TO OR GREATER THAN THE MINIMUM SIZE PER TABLE 12.4 IN THE ASC MANUAL OF STEEL CONSTRUCTION - 17TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISSING OR NON-COMPLIANT MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONTRACTOR, OWNER, OR CONSTRUCTION MANAGER FOR APPROVAL. SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNSTRUCTURE SHALL BE FORMED STEEL CHANNEL, STRUT FRAMING AS EPOX, ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL, INSERT, ROOFING TIE, AND WASHERS, AN INTERNALLY THREADED TUBE, INSERT, ROOFING TIE, AND WASHERS, AND AN ANCHORING SYSTEM SHALL BE THE HILT-LIFT™ HY-2000 AND HY-1000 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION APPROVED EQUAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION ALUMINUM, WHICH SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
- WHERE POOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CENTERLINE, AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND CONTRACTOR, AND SHALL BE PERFORMED IN A MANNER AS TO NOT DAMAGE THE EXISTING BUILDING COLUMNS, BEARING TO BE REPAIRED/REFLADED AT ALL FLOOR/PLATFORM SUPPORT POINT. ENGINEER OF RECORD TO APPROVE.
- STRUCTURAL MEMBERS USED ARE AS MANUFACTURED BY THE CONTRACTOR, AND SHALL BE IN ACCORDANCE WITH THE DESIGN MANUAL, ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
- NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
- SUBCONTRACTOR SHALL FREEPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

MASSACHUSETTS AMENDMENTS TO THE IBC

REFERENCE IBC CHAPTER 17:

- GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER, OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBILITY CHARGE, ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.
- THE REGISTERED DESIGN PROFESSIONAL, IN RESPONSIBILITY CHARGE, AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PRODUCT ARE PERMITTED TO ACT AS THE APPROVED AGENT AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE APPROVED INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.
- STATEMENT OF SPECIAL INSPECTORS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTORS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBILITY CHARGE IN ACCORDANCE WITH SECTION 111 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN REPORT REQUIREMENT. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL PERFORM INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBILITY CHARGE. REPORTS SHALL BE IN CONFORMANCE WITH THE REQUIREMENT FOR THE WORK DESIGNED BY THEM. DOCUMENTS DISPERSED BY THE APPLICANT SHALL BE REFERRED TO THE INSPECTOR FOR CORRECTION, IF THEY ARE NOT CORRECTED, TO THE INSPECTOR FOR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBILITY CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

REQUIRED INSPECTIONS AND SITE REVIEWS IDENTIFIED BY THE BUILDING OFFICIAL ARE REQUIRED FOR WORK PER THE 8TH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE, 700 CMR, SECTION 110 AND CHAPTER 17

REQUIRED SITE REVIEW AND DOCUMENTATION FOR PORTIONS OR PHASES CONSTRUCTION 14.2

REPORTING BY THE APPROVED REGISTERED DESIGN PROFESSIONAL, OR IN WRITING, ON IFC 113 (IF APPLICABLE)

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REQUIRED INSPECTIONS AND SITE

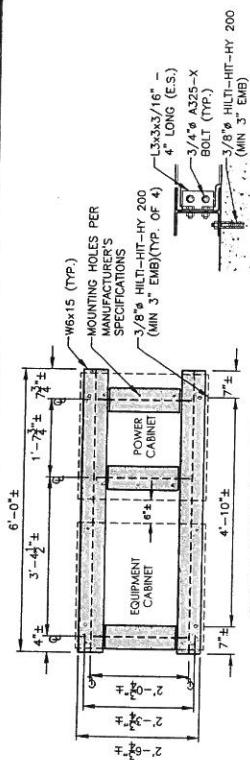
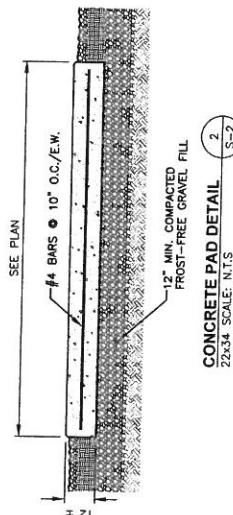
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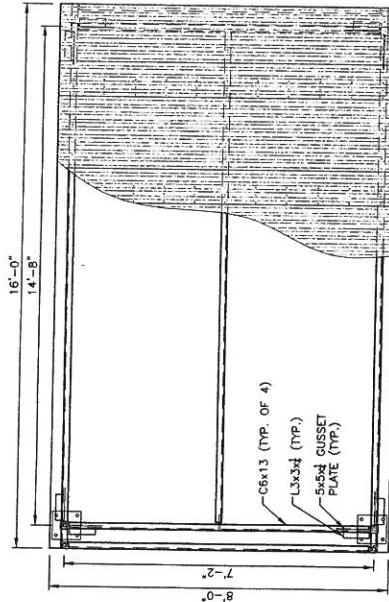
FOR CONSTRUCTION

FOUNDATION NOTES & CONCRETE SPECIFICATIONS.

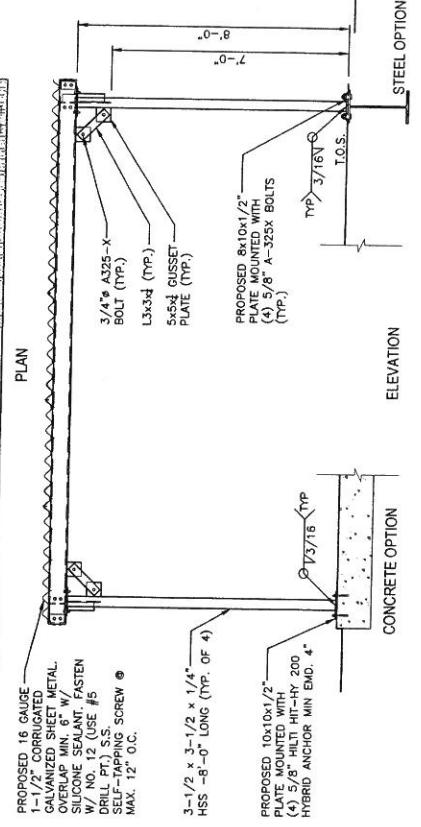
1. FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. EXISTING LEDGE AND ALL OTHER EXISTING INSULABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE MATERIAL SHALL ROLLED WITH A 1-TON VIBRATOR. WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS. 6 PASSES MINIMUM, TO PROVIDE UNHELD SURFACE.
2. UNDERCUT SOIL OR WEAVING AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL.
3. CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH ($f'c$)=4000 psi. CONCRETE TO BE AIR ENTRAINED. DESIRED AIR CONTENT TO BE 6% (PLUS OR MINUS 2%).
4. REINFORCING BAR TO BE ASTM A615 GRADE 60.
5. WELDED WIRE FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A193. WIRES FOR FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A82.
6. COORDINATE WITH MANUFACTURER OF PREFABRICATED SHELTER FOR LOCATION OF ATTACHMENTS TO BASE SLAB.
7. ALL REINFORCING TO HAVE MINIMUM CONCRETE COVER PER ACI SPECIFICATIONS.
8. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO LATEST EDITION OF ACI 318 AND APPLICABLE STATE BUILDING CODE.



EQUIPMENT PLATFORM DETAIL
S-2



PLAN



SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	5/09/16	FOR PERMITTING	
0	07/16/16	FOR CONSTRUCTION	

SITE NAME:	AMESBURY
RIVERSIDE MA	

SITE ADDRESS:
27 SOUTH HUNT RD
AMESBURY, MA 01913SHEET TITLE:
STRUCTURAL DETAILSSHEET NUMBER:
S-2

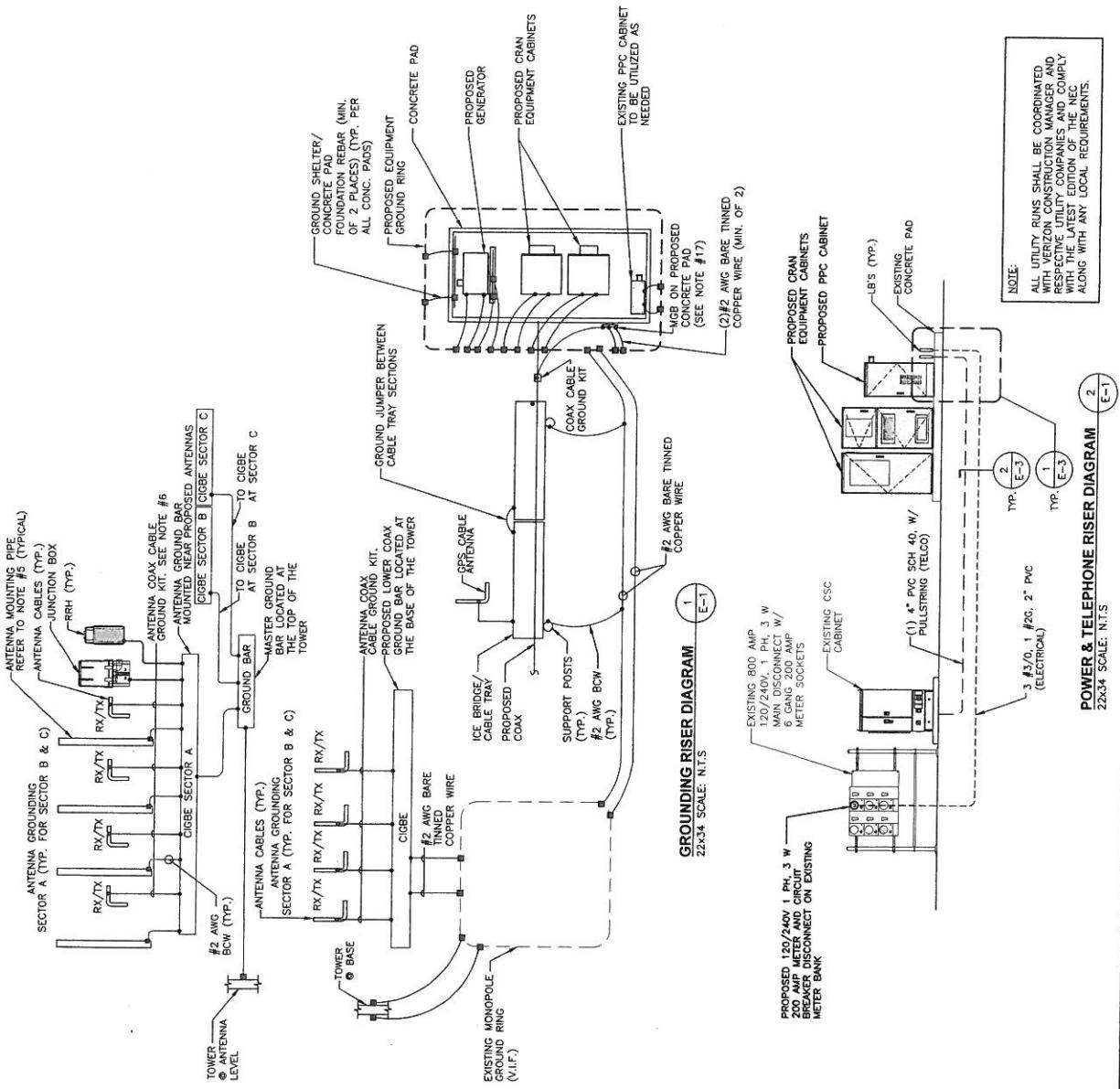


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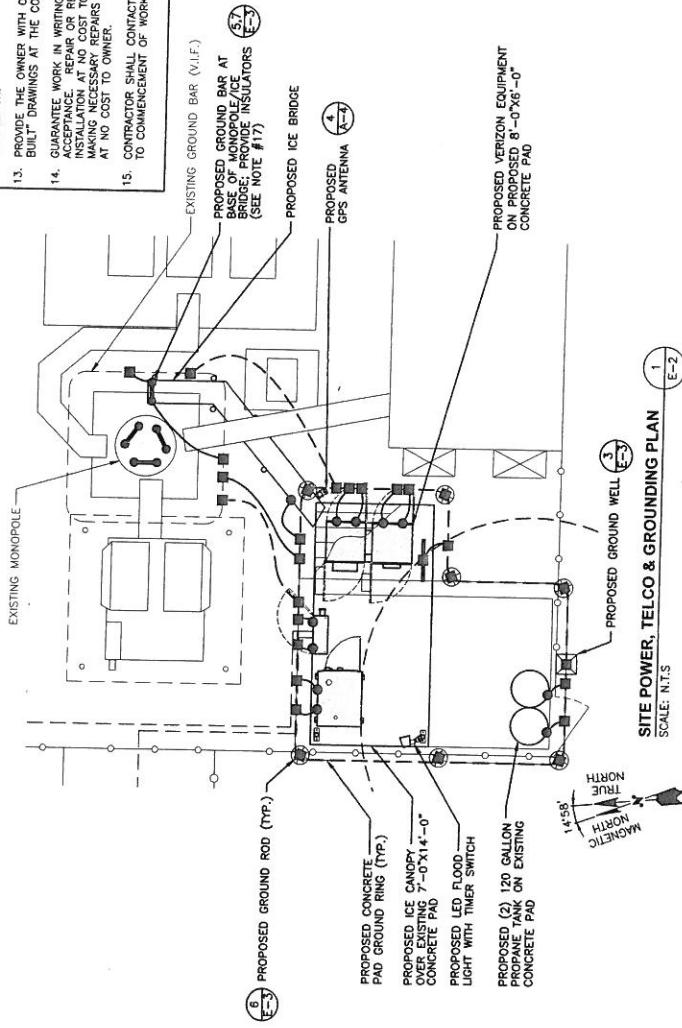
NOTES

1. TERMINATIONS TO THE ALARM STRIP WILL HAVE CRIMP ON BLOCK SPADE.
 2. LABELING; ALL ALARMS WILL BE LABELED WITH WHITE LAMINATED TAPE LABELS AT THE ALARM BLOCK.
 3. ALL ALARMS WILL BE BROUGHT TO THE TELCO BOARD AND CONNECTED TO THE TERMINAL STRIP.
 4. TERMINAL STRIP WILL BE LOCATED INSIDE A HOFFMAN BOX MOUNTED TO THE TELCO BOARD.
 5. USE A MINIMUM 18AWG WIRE TO BRING ALARMS TO THE ALARM BOARD.
 6. ALARM CONTACTS ARE NORMALLY CLOSED, OPENING OF CONTACTS INDICATES AN ALARM CONDITION.



ELECTRICAL NOTES

- UTILITY SERVICES SHOWN ARE PROPOSED AND THE ELECTRIC CONTRACTOR SHALL COORDINATE EXACT TELEPHONE, ROUTING, ELECTRIC SERVICE CONNECTION POINTS, PULL BOXES, ROUTING AND ASSOCIATED REQUIREMENTS WITH LOCAL UTILITY COMPANIES.
- VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE COMMENCED. RENEWAL OF ADVERSE CONDITIONS IN WRITING TO LICENSEE. ACCEPTANCE OF OWNERS SHALL BE CONSTRUED AS COMPLETE AGREEMENT OF EXISTING OWNERS INCLUDING PREPARATORY WORK DONE BY OTHERS.
- ALL EXISTING UNDERGROUND LINES ON SITE SHALL BE LOCATED PRIOR TO CONSTRUCTION.
- GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
- PERFORM WORK AS REQUIRED BY BCOA AND PER LOCAL LAWS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH LOCAL UTILITY COMPANIES AND FIELD CONSTRUCTION MANAGER.
- ALL EXTERIOR WALL PENETRATIONS SHALL BE SILICONE SEALED.
- MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA & CRM APPROVED FOR INTENDED SERVICE. INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND STATE ELECTRICAL CODE.
- ALL ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.C.
- ALL NEW WIRING SHALL BE TYPE THHN RATED 75°C, 600 VOLT, WET OR DRY LOCATIONS. MINIMUM BRANCH CIRCUIT WIRING SHALL BE #12 AWG.
- ALL METALLIC CONDUITS SHALL BE PROVIDED WITH BONDING BUSHINGS.
- ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO THE LICENSEE PROJECT MANAGER AT JOB COMPLETION.
- PROVIDE THE OWNER WITH ONE SET OF COMPLETE ELECTRICAL "AS BUILT" DRAWINGS AT THE COMPLETION OF THE JOB.
- GUARANTEE WORK IN WRITING FOR ONE YEAR FROM DATE OF INSPECTION. AT NO COST TO OWNER, CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER.
- CONTRACTOR SHALL CONTACT TIG SAFE® (1-888-DIG-SAFE) PRIOR TO COMMENCEMENT OF WORK.



GROUNDING NOTES

- ALL GROUND WIRE SHALL BE BARE COPPER #2 AWG UNLESS OTHERWISE NOTED.
- ALL GROUND WIRES SHALL PROVIDE A STRAIGHT, DOWNWARD PATH TO GROUND WITH GRADUAL BENDS OR SHARPLY BENT.
- ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF GROUND RODS AND GROUND RING WITH FOUNDATION AND UNDERGROUND CONDUIT.
- EACH EQUIPMENT CABINET SHALL BE CONNECTED TO THE GROUND BAR (N.P.) WITH #2 AWG INSULATED STANDED COPPER WIRE CONNECTIONS. EQUIPMENT CABINETS SHALL EACH HAVE (2) ANTENNA GROUND KITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- PROVIDE DEDICATED #2 AWG COPPER GROUND WIRE CIRCUIT (TYPICAL FOR FOUR MOUNTING PIPES PER SECTOR).
- ANTENNA GROUND KITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- COORDINATE NEW LICENSEE GROUND SYSTEM WITH EXISTING SITE GROUND SYSTEM.
- EACH SECTION OF CABLE TRAY, ICE BRIDGE, AND ICE SHIELD SHALL BE CONNECTED IN A FASHION TO PROVIDE A CONTINUOUS GROUND.
- AT ALL TERMINATIONS OF EQUIPMENT ENCLOSURES, PANELS AND FRAMES, ON EQUIPMENT TERMINALS WHERE EXPOSED FOR GROUNDING, CONDUCTORS TERMINALS SHALL BE PERFORMED UTILIZING TWO HOLE, BOILED TAPING, TUBE EXPRESSION TYPE WITH STAINLESS STEEL SELF-TAPPING SCREWS.
- ALL CLAMPS AND SUPPORTS USED TO SUPPORT THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUITS SHALL BE PVC TYPE (SUPPORT CLAMPS DO NOT USE METAL BRACKETS OR SUPPORT CLAMPS WHICH WOULD FORM A COMPLETE GROUNDING CONDUCTOR).
- ALL GROUNDING CONNECTIONS SHALL BE COATED WITH A COPPER SHIELD ANTI-CORROSION AGENT SUCH AS T&B KEEPER. VERIFY PRODUCT WITH LICENSEE PROJECT MANAGER.
- ALL BOLTS, WASHERS, AND NUTS USED ON GROUNDING CONNECTIONS SHALL BE STAINLESS STEEL.
- INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND GROOVED TO THE GROUND BUS IN THE PANELBOARD.
- GROUND ANTENNA BASES, FRAMES, CABLE RACKS, AND OTHER METALLIC COMPONENTS WITH #2 AWG GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
- GROUND COAXIAL SHIELD AT BOTH ENDS USING MANUFACTURER'S GUIDELINES.
- REINFORCEMENT IN EQUIPMENT SLAB TO BE WELDED AND REINFORCEMENT TO BE BONDED TO GROUNDING RING.
- ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-Theft HARDWARE.

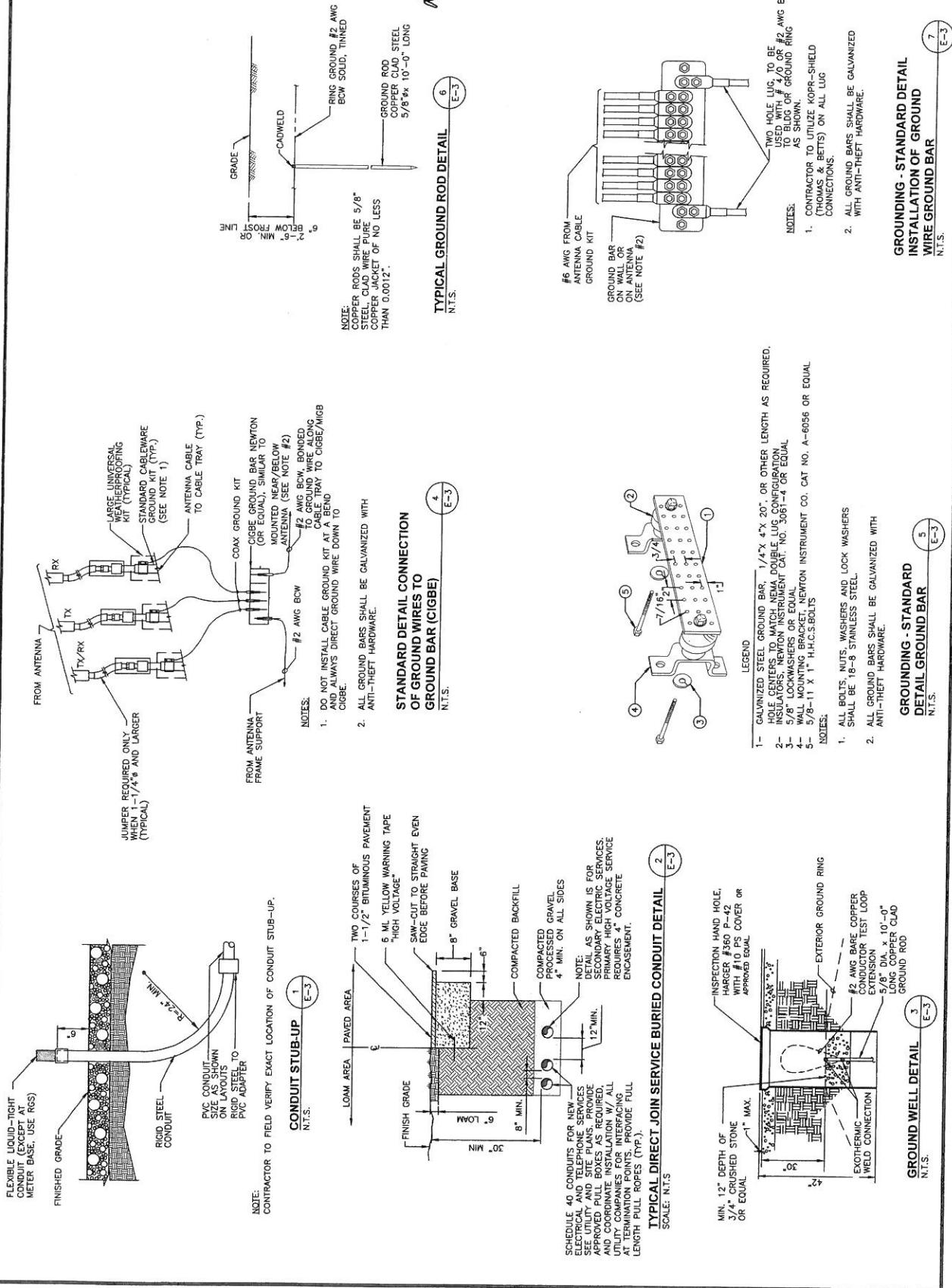
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		<p>PREPARED FOR: VERIZON WIRELESS 40TH FLOOR, PARCWAY WHITEPLAINS, NY 10601 (609) 520-5551</p>	<p>100 COCOA STREET BUILDING 20, UNIT 300 N. ANDOVER, MA 01845 TEL: (978) 443-5400 FAX: (978) 443-5584</p>		<p>DANIEL P. DAWSON CIVIL REGISTERED PROFESSIONAL ENGINEER NO. 44720</p>	<p>SHEET NUMBER E-2</p>
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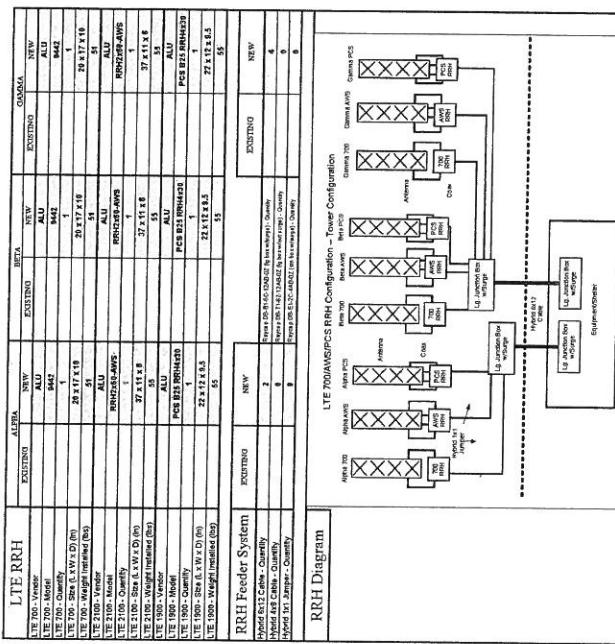


FOR CONSTRUCTION





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VCD - New England 83rd
VNA DESIGN

PRIOR TO CONSTRUCTION.

